

**John Harry MacMillan Ph.D.**

**PUBLICATIONS AND PATENTS**



**Below are listed in chronological order my complete list of chemistry abstracts, papers and patents. Download freely any material of interest.**

**1. Thomas R.P. Gibb Jr. and John H. MacMillan, "Line Broadening in the X-Ray Diffraction Patterns of the Vanadium Hydride System", Tufts University, Undergraduate Thesis, 1966.**

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**2. Thomas R.P. Gibb Jr., J.H. MacMillan and R.J. Roy, "The Magnetic Susceptibility of Palladium Hydride", J. Phys. Chem., Vol. 70, p3024 (1966).**

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**2a. Thomas R.P. Gibb Jr. and John H. MacMillan, "Magnetic Susceptibility Effects on Removal of Hydrogen from Beta Phase Palladium Hydride", Tufts University, Undergraduate Thesis, 1966.**

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**3. Alfred Viola and John H. MacMillan, "Vapor Phase Thermolysis of 1-Hexen-5-yn-3-ol, An Acetylenic Oxy-Cope Reaction" J. Am. Chem. Soc., Vol. 90, p 6141, (1968).**

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**4. Alfred Viola and John H. MacMillan, "A Novel Steric Effect in**



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**6. Alfred Viola and John H. MacMillan, "Addition of Grignard Reagents to Allylic and Propargylic Alcohols", J.H. MacMillan, Ph.D. Thesis, Northeastern University, 1970.**

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**6a. John H. MacMillan and Alfred Viola,**

**"Addition of unsaturated propargyl, allyl and benzyl Grignard Reagents to acetylenic or allylic alcohols.", internet archive, 2012.**

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**8. "Triple Bond Participation in the Oxy-Cope Rearrangement", John H. MacMillan, Ph.D. Thesis, Northeastern University, 1970.**

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**9. Alfred Viola and John H. MacMillan, "Vapor Phase Thermolysis of 1,5-Hexadiynes, Effect of Hydroxyl Substitution". Presented at the 159th National Meeting of the American Chemical Society Houston Texas, February 1970, Abstract # ORGN 50.**

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**9a. John H. MacMillan and Alfred Viola "The Acetylenic-Oxy-Cope Rearrangement of 1,5-Hexadiyne-3-ol and Methyl Substituted Derivatives", Internet Archive, 2012.**

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**12. John H. MacMillan and Stephen S. Washburne, "Further Studies of the Interaction of Carbonyl Compounds with Organometallic Azides, the Novel Reaction of Benzoquinone with Trimethylsilyl Azide", Report of Investigators to the National Cancer Institute, 1972.**

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**Report of Investigators to the National Cancer Institute, 1972.**



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**18. John H. MacMillan, Michael E. Strem, Fredrick A. Fowler and George Guy, "An Improved Method for the Preparation of Bis-DiphenylPhosphino Acetylene and unsymmetrical Aryl Substituted Diphenylphosphino Acetylenes", Strem Chemiker, Vol. 11, No. 2,**



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**19. James D. Warren, John H. MacMillan and Stephen S. Washburne, "Synthesis of Substituted 2H-1,3-Oxazine-2,6-Diones by Reaction of Trimethylsilyl Azide with Maleic Anhydrides", J.Org.Chem., Vol. 40, p 743, (1975).**

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